

but specimens are often found which are nearly stoneless, and it is possible that this character could be fixed by selection.

For fifteen years or more the writer has used *C. azarolus* as a stock for pears with excellent results. Top-grafted at 2 to 3 feet above the ground, it develops into a very beautiful, productive, and long-lived dwarf tree, provided the grafting is done with a very early variety. This shrub grows in extremely hot, dry places and must therefore complete the greater part of its development early in the season. Its roots, therefore, are unable to furnish the sap necessary to develop pears in August. If, however, it is grafted with a pear which fruits in May or June, when the roots of the *Crataegus* are in their period of greatest activity, the best results are obtained.

The writer speaks only of pears, because he has experimented with them, but he sees no reason a priori why these stocks should not do as well for apples, which he has not as yet tried. (Adapted from *Aaronsohn, Bureau of Plant Industry Bulletin No. 180, p. 15.*)

**48516.** "A red-fruited form." (*Giraud.*)

**48517.** "A yellow-fruited form." (*Giraud.*)

For previous introduction, see S. P. I. No. 33205.

## 48518 to 48550.

From Kenkelbosch, Cape Province. Collected by Dr. H. L. Shantz, Agricultural Explorer of the Bureau of Plant Industry. Received November 1, 1919. Quoted notes by Dr. Shantz.

**48518.** *ACACIA HORRIDA* (L.) Willd. Mimosaceæ. **White thorn.**

"(No. 75. Kenkelbosch, Cape Province. September 8, 1919.) A South African shrub, 4 to 10 feet high; it is very white when leafless because of the large spines. It grows mostly in the open, and seeds abundantly."

A natural hedge of this species is shown in Plate III.

**48519.** *ARCTOTIS ACAULIS* L. Asteraceæ.

"(No. 25. Kirstenbosch, Cape Province. August 25, 1919.) A beautiful composite, from 6 to 12 inches high, ranging from deep red to orange."

**48520.** *ASPARAGUS* sp. Convallariaceæ.

"(No. 79. Kenkelbosch, Cape Province. September 10, 1919.) A large spiny type from South Africa, with very pretty foliage; one of the *Wachten-beetje* [wait-a-bit thorns]; a very decorative vine with a red berry and black seed."

**48521.** *LEUCOSPERMUM*. Proteaceæ.

"(No. 76. Kenkelbosch, Cape Province. September 3, 1919.) A beautiful low bush from South Africa, with a very showy flower."

**48522.** *MEDICAGO HISPIDA DENTICULATA* (Willd.) Urban. Fabaceæ.

**Bur clover.**

"(No. 70. Port Elizabeth, Cape Province. September 2, 1919.) A low-growing clover, with heads of purple flowers. It is found on most lawns, producing a very dense cover. It is said to die out during hot weather but is excellent when the season is not too dry."

**48523 to 48545.** *PHASEOLUS* spp. Fabaceæ.

**Bean.**

"(Nos. 44 to 69. Rosebank, Cape Town. August 27, 1919.) Beans from the Entomological Station at Rosebank, which have been grown for weevil resistance. All strains being grown for experimental purposes have been separated from the commercial varieties."